

TITAN[®] XL 1000 Yields Excellent Results



Project Summary

TITAN TECHNOLOGY PROPOSED IN PLACE OF MB SENSITIZED EMULSION

Quarries in the Chicago Land area have been using 1.2 g/cc density MB sensitized emulsion. Hole depths vary from very short benches up to 180', sometimes with multiple decks.

Many of the quarries are located very close to populated areas. The primary mineral deposits in this region is limestone and much of it is well laminated with a significant amount of cracks and seams in the formations.

Technology Applied

TITAN XL TECHNOLOGY WAS INTRODUCED GRADUALLY

TITAN XL 1000 with end of hose gassing was introduced into this area gradually over a three month period.

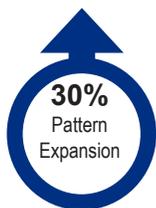
Results

CUSTOMER WAS VERY SATISFIED WITH THE EXCELLENT RESULTS

Several customers that have utilized this technology so far do not want to go back to the MB sensitized emulsion.

Comments from customer include:

1. "Muck pile is flatter."
2. "Rock distribution throughout the entire muck pile is more uniform with significant reduction in oversized material."



Blasters have commented:

1. "Even though the target is a 1.20 g/cc density fewer pounds are being used because migration into the cracks and seams has improved significantly."
2. "Patterns at one account have expanded over 30% with improved equal or better digging."
3. "Blasters and operators are paying more attention as they are now utilizing the TITAN Calculator to calculate loading columns."

Next Steps

MOVE TOWARDS DIFFERENTIAL ENERGY™

As confidence grows with existing technology, area sales management will develop target customers who could benefit from the use of DIFFERENTIAL ENERGY.